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Resume
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CURRENT SERIAL RECORDS

*1964
fall
semester
evening
courses*

GRADUATE SCHOOL • U. S. DEPARTMENT OF AGRICULTURE

Independence Avenue, between 12th and 14th Streets, Southwest, Washington, D. C. 20250 • DUdley 8-6337

Register

September 5-12



- Courses for High School and College Graduates
- Training for Federal Employees

REGISTER SEPTEMBER 5-12 General Information

Registration Week: September 5-12, in the Patio (first floor) of the Administration Building, U.S. Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington 25, D.C.

Saturdays 9-4 p.m.

Tuesday-Friday 11-6:30 p.m.

(No registration Labor Day, September 7)

Procedures: Registration must be completed in person, or by someone acting for the registrant. Registration may not be completed by mail. Transcripts of previous educational records are not required, but graduation from high school, or the equivalent, is the general prerequisite for all courses. The more advanced courses have specific prerequisites. These are listed in the course descriptions contained in the catalog. Copies of the catalog are available in the personnel and training offices of agencies of the Federal Government and in the Graduate School office. Copies can also be obtained at the time of registration.

Academic Credit: Any student wishing to receive credit elsewhere for Graduate School courses should consult in advance with the college or university in which he plans to take a degree.

Counseling: Members of the Graduate School staff are on hand for counseling before and during the registration period. A testing service is available upon payment of a fee.

Fees: The charge for tuition is in general \$14 for each credit hour, payable at the time of registration. Arrangements may be made to pay one-half of the tuition at that time, in addition to a \$1.00 service charge. The second payment is due by October 9.

Late Registration: After September 12, a \$2.00 late registration fee is charged for each course. Late registrations will be accepted through September 25, with permission of the Registrar.

Course Transfers: Until September 25, students may transfer from one course to another without extra charge, if space permits. After that date, there is a transfer fee of \$1.00. Transfers may be made only with the permission of the Registrar and the instructor concerned.

Federal Income Tax Deductions: According to the Internal Revenue Service regulation of April 5, 1958, expenses for education are deductible if undertaken for the purpose of "maintaining or improving skills by the taxpayer in his employment."

Class Schedule: Classes begin the week of Monday, September 14, and end the week of Monday, January 11.

Government Employees Training Act: If a student plans to ask his agency to pay all or part of his tuition under the training legislation (Public Law 85-507), he should make these arrangements in advance of registration week.

Veterans: A veteran who is applying for entrance to the Graduate School for the first time under Public Law 550 is advised to consult with the Registrar well in advance of registration week. This may assure that his certificate of eligibility from the Veterans Administration will be granted in time for the semester.

Textbooks: Textbooks can be purchased at the Graduate School Bookstore, Room 1023, South Building, at the following times:

Registration week, September 5-12

Tuesday-Friday, 11 a.m.-6:30 p.m.

Saturdays (September 5 and 12 only)

9 a.m.-4 p.m.

First week of classes, September 14-18

Monday-Friday, 11 a.m.-6:30 p.m.

September 21-October 2

Monday-Friday, 11 a.m.-1 p.m.

and 4:30-6:15 p.m.

Beginning October 5

Monday-Friday, 4:30-5:30 p.m.

Withdrawals and Refunds: When a student withdraws from a course, a refund is granted in accordance with the following schedule:

Through September 25, tuition less \$5.00 for each course

September 28-October 9, 60 per cent of the total tuition

October 12-23, 50 per cent of the total tuition

Laboratory fees are refunded only during the first week of classes. Notice of withdrawal must be made in writing to the Graduate School office. Forms are available for that purpose. Refunds are computed as of the date that notice of withdrawal is received in the Graduate School office. No refunds will be granted for any reason after October 23.

Credit-Audit Changes. The deadline is October 23.

Parking Space—Cafeteria: Space for parking is available for students and faculty after 5:45 p.m. in three parking courts on the east and south sides of the Administration Building. The entrances are on Independence Avenue. There is also space on the Mall, north of the Administration Building. The cafeteria, in the fourth wing of the South Building, is open from 5:00 to 6:30 p.m.

Business Office Hours: The Graduate School office, Room 1031, South Agriculture Building, 14th Street and Independence Avenue, S.W., Washington 25, D. C., is open from 9:00 a.m. to 6:15 p.m. Monday through Friday. Telephone DUDley 8-6337 (Code 111, extension 6337).

SCHEDULE OF CLASSES

Registration September 5-12

Classes begin September 14

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
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BIOLOGICAL SCIENCES

- 1-115A Introduction to Modern Biology (First Half) (2) Barnes Tu 6:10-8
and field trips to be arranged \$28 and \$1 laboratory fee p. 13
- 1-126 Medical Terms Simplified (2) Bollo Th 6:10-8 \$28 p. 13
- 1-90A Basic Principles of Laboratory Animal Care (First Half) (non-credit) Johnson
Tu 6:10-8:40 \$42 p. 13
- 1-560 Fundamentals of Medical Microbiology (3) Fusillo Tu 6:10-8:40 \$42 p. 14
(Meets at Mount Alto Veterans Administration Hospital)
- 1-570A Design of Experiments in Biological Sciences (First Half) (2) Koch W 4:45-6:30
\$28 p. 14 (Meets at Plant Industry Station, Beltsville, Maryland)

Natural History Field Studies

(Register September 5-12 for all courses.)

- 1-132 Introduction to Outdoors (1) Buck and Foster Th 6:10-8 \$14 p. 15 Lectures
September 17, October 1, 15, and 29. Field trips September 19, October 3, and 24.
- 1-130 Physical Environment I: Geology (1) Pistrang Tu 6:10-8 \$14 p. 15
Field trips October 10 and 31 (7 weeks beginning September 22)
- 1-125 Physical Environment II: Climate and Soils (1) Lehr and Matthews Tu 6:10-8
\$14 p. 15 Field trip November 14 (8 weeks beginning November 10)
- 1-131 Basic Biology (1) Instructor to be announced Th 6:10-8 \$14 p. 15
(8 weeks beginning November 5)
- 1-136 Nature Teaching and Leadership Techniques (1) Instructor to be announced
M 7:10-9 \$14 p. 16 Lectures September 14 and 28, October 12 and 26 Field trips
September 19, October 3 and 17 (Meets at Audubon Naturalist Society Headquarters)
- 1-138 Biotic Communities: Deciduous Forests (1) Osborn and Williams M 7:10-9 \$14 p. 16
Lectures September 21, October 5 and 19, November 2. Field trips September 26,
October 10 and 24 (Meets at Audubon Naturalist Society Headquarters)
- 1-137 Conservation Philosophy in United States (1) Briggs M 7:10-9 \$14 p. 16
(Meets at Audubon Naturalist Society Headquarters) (8 weeks beginning November 9)
- 1-129 Weather (1) Lehr W 7:10-9 \$14 p. 17 (Meets at Audubon Naturalist Society
Headquarters) (8 weeks beginning September 16)

LANGUAGES AND LITERATURE

English—Grammar and Writing

- 2-39 Basic Grammar (non-credit) Anderson Th 6:10-8 \$28 (Intensive drill on recognition
of parts of speech of English sentences and their contribution through parsing.
Phrases and clauses in analysis and synthesis drill.)
- 2-95 Improving Reading Ability (non-credit) Willmore M-W 6-8 \$42 p. 21 (8 weeks)
- 2-35 English for Secretaries (non-credit) Anderson M 6:10-8 \$28 p. 21
- 2-38 English for Foreigners (non-credit) Weeks Th 6:10-8 \$28 p. 21
- 2-112 Practical English Usage (2) \$28 p. 21
Section I Reed M 6:10-8
Section II Jones M 6:10-8
Section III Jones Tu 6:10-8
- 2-119 Vocabulary Building (3) Jones Th 6:10-8:40 \$42 p. 21
- 2-222A English Composition (First Half) (3) Anderson W 6:10-8:40 \$42 p. 22
- 2-223 College Grammar (3) Harmon Tu 6:10-8:40 \$42 p. 22
- 2-226 Official Writing (2) McCormick Tu 6:10-8 \$28 p. 22
- 2-235 Fiction Writing (2) Arnold M 6:10-8 \$28 p. 23
- 2-280 Feature Writing (2) Dolan Tu 6:30-8:20 \$28 p. 23
- 2-450 Technical Writing (2) \$28 p. 23
Section I Brett M 6:10-8
Section II Carter W 6:10-8
- 2-285 Writing for Data Processing Installations (2) Nicholson W 6:10-8 \$28 p. 23

Literature

- 2-330A Great Books (First Half) (Reading List A) (2) Ruppert M 6:10-8 \$28 p. 24
- 2-405A Literary Masterpieces of Orient (First Half) (2) Arasteh Th 6:10-8 \$28 p. 24

Information Methods

- 2-325 Basic Skills in Official Communication (2) Maddux Tu 6:10-8 \$28 p. 25
- 2-220 Indexing (2) Kozak Th 6:10-8 \$28 p. 25
- 2-225 Principles of Editing and Their Application (3) Koenig W 6:10-8:40 \$42 p. 25
- 2-239 Intermediate Editing (3) Perlmutter Tu 6:10-8:40 \$42 p. 25
- 2-237 Printing, Layout, and Design (2) Murow and associates M 6:10-8 \$28 p. 25
- 2-412 Editing Technical Manuscripts (2) Reynolds M 6:10-8 \$28 p. 26
- 2-415 Producing Popular Publication (2) Feldman Th 6:10-8 \$28 p. 26
- 2-243 Using Visuals Effectively (2) Granahan Th 6:10-8 \$28 p. 26

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
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Library Techniques

2-125	Introduction to Library Service	(2)	Moran, Payne, and associates	M	6:10-8	\$28	p. 26
2-135	Introduction to Cataloging and Classification	(2)				\$28	p. 27
	Section I		Tate	Tu	6:10-8		
	Section II		Kuri	Th	6:10-8		
2-137	Basic Reference Service and Reference Tools	(2)	Pierson	M	6:10-8	\$28	p. 27
2-138	Introduction to Bibliographic Science	(2)	Popecki	Th	6:10-8	\$28	p. 27
2-114	Maps and Charts	(2)	Bahn	M	6:10-8	\$28	p. 27
2-420	Documentation in Science and Technology	(2)	Sherrod	Th	6:10-8	\$28	p. 28
2-160	Library Techniques—Seminar	(3)	Sherrod	Tu	6:10-8:40	\$42	p. 28

Speech

2-228	Public Speaking for Beginners	(2)	Miller	Th	6:10-8	\$28	p. 28
2-229	Advanced Public Speaking	(2)	Nelson	W	6:10-8	\$28	p. 28
2-232	Voice and Remedial Speech	(2)	Warren	Tu	6:10-8	\$28	p. 28

Foreign Languages

2-58A	Latin for English (First Half)	(non-credit)	Stefferd	Tu	6:10-8:40	\$42	p. 29
2-200A	Elementary Mandarin Chinese (First Half)	(4)	Tsao	M-Th	6:10-8	\$56	p. 29
2-210A	Elementary Swahili (First Half)	(3)	Mlela	W	6:10-8:40	\$42	p. 33

French

2-253A	Elementary French (First Half)	(3)	Sommerville	Th	6:10-8:40	\$42	p. 30
2-254A	Intermediate French (First Half)	(3)	Vican	M	6:10-8:40	\$42	p. 30
2-68	Reading French (non-credit)		Vican	W	6:10-8:40	\$42	p. 30
2-87	Basic Conversational French (non-credit)		Vican	F	6:10-8	\$34	p. 30
2-255	Advanced French Conversation and Composition	(3)	Vican	Tu-Th	6-7:10	\$42	p. 30

German

2-259A	Elementary German (First Half)	(3)	Lederer	M	6:10-8:40	\$42	p. 30
2-260A	Intermediate German (First Half)	(3)	Lederer	Tu	6:10-8:40	\$42	p. 31
2-88	Basic Conversational German I (non-credit)		von Luttichau	Tu	6:10-8:40	\$42	p. 31
2-96	Basic Conversational German II (non-credit)		von Luttichau	Th	6:10-8:40	\$42	p. 31
2-66	Reading Scientific German	(3)	Lederer	W	6:10-8:40	\$42	p. 31
2-97	Journey Through German Lands (non-credit)		von Luttichau	W	6:10-8:40	\$42	p. 31

Italian

2-270A	Elementary Italian (First Half)	(3)	Bauer	Tu	6:10-8:40	\$42	p. 31
2-271A	Intermediate Italian (First Half)	(3)	Bondi	Th	6:10-8:40	\$42	p. 31

Portuguese

2-290A	Elementary Portuguese (First Half)	(3)	Ornstein	W	6:10-8:40	\$42	p. 31
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Russian

2-295A	Elementary Russian (First Half)	(3)				\$42	p. 32
	Section I		Fediay	M	6:10-8:40		
	Section II		Scala	Th	6:10-8:40		
2-295B	Elementary Russian (Second Half)	(3)	Scala	Tu	6:10-8:40	\$42	p. 32
2-296A	Intermediate Russian (First Half)	(3)	Zinovieff	Th	6:10-8:40	\$42	p. 32
2-296B	Intermediate Russian (Second Half)	(3)	Scala	M	6:10-8:40	\$42	p. 32
2-299A	Advanced Russian (First Half)	(3)	Scala	W	6:10-8:40	\$42	p. 32
2-292	Scientific Russian I	(3)	Boldyreff	M	6:10-8:40	\$42	p. 32
2-294	Scientific Russian II	(3)	Boldyreff	W	6:10-8:40	\$42	p. 32
2-31	Russian Poetry (non-credit)		Boldyreff	Tu	6:10-8:40	\$42	
	(Review of Russian poetry to present, with emphasis on classical poets such as Lermontov and Pushkin. Interpretation and appreciation of form and content. Lecture, reading, translation, and discussion. Term paper optional. Prerequisite: Two years of college Russian, or equivalent.)						

Spanish

2-300A	Elementary Spanish (First Half)	(3)	Jaffe	M	6:10-8:40	\$42	p. 33
2-301A	Intermediate Spanish (First Half)	(3)	Sterling	W	6:10-8:40	\$42	p. 33
2-302A	Advanced Spanish Conversation and Composition (First Half)	(2)	Sterling			\$28	p. 33
2-83	Basic Conversational Spanish I (non-credit)		Otero	M	6:10-8	\$34	p. 33
2-84	Basic Conversational Spanish II (non-credit)		Otero	Tu	6:10-8	\$34	p. 33

MATHEMATICS AND STATISTICS

Mathematics

- 3-35 Parents' Guide to New Mathematics (non-credit) Wilmeth Tu 6:10-8 \$18
(How to understand the mathematics that your children are taught in the schools today.) (10 weeks)
- 3-8 Intermediate Algebra (non-credit) \$42 p. 35
Section I Butler Tu 6:10-8:40
Section II Fox Th 6:10-8:40
- 3-1A Review of College Freshman Mathematics (First Half) (non-credit) Diamond
M 6:10-8 \$28 p. 36
- 3-102 College Algebra (4) \$56 p. 36
Section I McCurley M-W 6:10-8
Section II Gordon Tu-Th 6:10-8
- 3-100 Introduction to Modern Algebra (3) Sanburn Tu 6:10-8:40 \$42 p. 36
- 3-103 Trigonometry and Analytic Geometry (4) Stearn M-F 6:10-8 \$56 p. 36
- 3-206A Calculus (First Half) (4) \$56 p. 37
Section I Slonim M-W 6:10-8
Section II Hussong M-Th 6:10-8
- 3-206B Calculus (Second Half) (4) \$56 p. 37
Section I Lakey M-W 6:10-8
Section II Givold Tu-Th 6:10-8
- 3-500A Advanced Calculus (First Half) (3) Gauthey M 6:10-8:40 \$42 p. 37
- 3-310A Introduction to Probability Theory (First Half) (3) Raff Tu 6:10-8:40 \$42 p. 37
- 3-415A Elementary Matrix Theory (First Half) (3) Gambino Th 6:10-8:40 \$42 p. 37
- 3-502A Differential Equations (First Half) (2) McGrane M 6:10-8 \$28 p. 37
- 3-509A Mathematics for Economists (First Half) (3) Rojko W 6:10-8:40 \$42 p. 38
- 3-532 Introduction to Linear Programming (3) Bach W 6:30-9 \$42 p. 38
- 3-533 Introduction to Operations Research I (3) Miller Tu 6:10-8:40 \$42 p. 38
- 3-730 Theory of Graphs (3) Saaty W 6:10-8:40 \$42 p. 39

Statistics

- 3-6 Preparatory Mathematics for Introductory Statistics (non-credit) \$28 p. 39
Section I Kibler Tu 6:10-8
Section II Kinney W 4:45-6:35
(Section II meets at Agricultural Research Center, Beltsville, Maryland)
- 3-126A Introductory Statistics (First Half) (2) \$28 p. 39
Section I Wilmeth M 6:10-8
Section II West Tu 6:10-8
Section III West Th 6:10-8
- 3-126B Introductory Statistics (Second Half) (2) Wilmeth Th 6:10-8 \$28 p. 39
- 3-136 Graphic Methods of Presenting Statistics (2) Guidry Th 6:10-8 \$28 p. 40
- 3-318 Machine Tabulation I (2) Instructor to be announced M 6:10-8
\$28 and \$5 laboratory fee p. 40
- 3-380A Principles of Statistical Analysis (First Half) (3) Stauber Tu-Th 6:00-7:15
\$42 p. 40
- 3-385A Elements of Statistical Methods (First Half) (2) Lehmann M 4:45-6:35 \$28 p. 40
(Meets at Agricultural Research Center, Beltsville, Maryland)
- 3-400A Mathematical Statistics (First Half) (4) Melnick M-W 6:10-8 \$56 p. 40
- 3-405 Statistics in Experimental Research (3) Huddleston Th 6:10-8:40 \$42 p. 41
- 3-435 Sampling in Social and Economic Surveys (3) Nisselson W 6:10-8:40 \$42 p. 41
- 3-450 Introduction to Population Statistics (3) Siegel Tu 6:20-8:50 \$42 p. 41
- 3-735A Theory of Sample Surveys (First Half) (2) Steinberg W 6:10-8 \$28 p. 41
- 3-025 Federal Statistical Services (non-credit) Ryan September 23, October 7, and 21,
November 4 (Registration is required, but no fees are charged.) p. 42

Automatic Data Processing

- 4-105 Basic Concepts of Data Processing (3) \$42 p. 46
Section I Suter M 6:10-8:40
Section II Austin M 6:10-8:40
(Section II meets at National Library of Medicine, Bethesda, Maryland)
- Section III Swink Tu 6:10-8:40
Section IV Austin W 6:10-8:40
(Section IV meets at National Library of Medicine, Bethesda, Maryland)
- Section V Swink Th 6:10-8:40
Section VI De Ruyter Th 6:10-8:40
- 3-559A Electronic Data Processing—General (First Half) (3) \$42 p. 42
Section I Newman M 6:10-8:40
Section II Lottridge Tu 6:10-8:40
- 3-559B Electronic Data Processing—General (Second Half) (3) Newman W 6:10-8:40
\$42 p. 42
- 3-552A Data Processing on Electronic Computers—UNIVAC 1105 (First Half) (3)
McGann Tu 6:10-8:40 \$42 p. 42
- 3-568A Data Processing on Electronic Computers—UNIVAC 1107 (First Half) (3)
Henderson M 6:10-8:40 \$42 p. 42

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
3-578A	IBM 360 Data Processing System (First Half)	(3)				\$42	p. 43
	Section I		Taylor	W	6:10-8:40		
	Section II		Merrill	Th	6:10-8:40		
3-585A	Data Processing on Electronic Computers—IBM 1401 (First Semester)	(3)				\$42	p. 43
	Section I		Nowotny	M	6:10-8:40		
	Section II		Johnson	Tu	6:10-8:40		
	Section III		Morton	W	6:10-8:40		
	Section IV		Vincent	Th	6:10-8:40		
3-585B	Data Processing on Electronic Computers—IBM 1401 (Second Semester)	(3)				\$42	p. 43
	Section I		Nucci	W	6:10-8:40		
	Section II		Armstrong	Th	6:10-8:40		
3-585C	Data Processing on Electronic Computers—IBM 1401 (Third Semester)	(3)					
	Nowotny	W	6:10-8:40	\$42	p. 43		
3-588A	Data Processing on Electronic Computers—IBM 1410 (First Half)	(2)				\$28	p. 43
	Section I		Close	W	6:10-8		
	Section II		Zeller	Th	6:10-8		
3-588B	Data Processing on Electronic Computers—IBM 1410 (Second Half)	(2)	Zeller				
	M	6:10-8	\$28	p. 43			
3-580A	Data Processing on Medium-Sized Advanced Electronic Computer—IBM 7070 (First Half)	(3)	Trask	W	6:10-8:40	\$42	p. 43
3-581A	Programming Large-Scale Data Processing System—IBM 7090 (First Half)	(3)	Merrill	6:10-8:40	\$42	p. 43	
3-595	COBOL Programming—Fundamentals	(3)	Steinberg	Tu	6:10-8:40	\$42	p. 44
3-589	FORTRAN Programming for Scientific and Business Computers	(3)	Bearden	Th	6:10-8:40	\$42	p. 44
3-760A	Programming Techniques for General Purpose Electronic Digital Computer—Scientific Applications (First Half)	(3)	Gressett	Tu	6:10-8:40	\$42	p. 44
3-762	Electronic Computer Methods for Statisticians	(3)	Schwartz	M	6:10-8:40	\$42	p. 44
2-285	Writing for Data Processing Installations	(2)	Nicholson	W	6:10-8	\$28	p. 23
7-464	Computers in Behavioral Sciences	(3)	Fitch	Tu	6:10-8:40	\$42	p. 86
8-682	Elements of Digital Data Processing	(3)	Mileson and Murray	M	6:10-8:40	\$42	p. 91
8-685	Engineering Applications of Digital Computers	(3)	Bossenga and Smith	Th	6:10-8:40	\$42	p. 91

OFFICE TECHNIQUES AND OPERATIONS

Administrative Procedures

4-101	Everyday Mathematics	(2)	Mouser	Tu	6:10-8	\$28	p. 46
3-8	Intermediate Algebra (non-credit)					\$42	p. 35
	Section I		Butler	Tu	6:10-8:40		
	Section II		Fox	Th	6:10-8:40		
4-105	Basic Concepts of Data Processing	(3)				\$42	p. 46
	Section I		Suter	M	6:10-8:40		
	Section II		Austin	M	6:10-8:40		
	(Section II meets at National Library of Medicine, Bethesda, Maryland)						
	Section III		Swink	Tu	6:10-8:40		
	Section IV		Austin	W	6:10-8:40		
	(Section IV meets at National Library of Medicine, Bethesda, Maryland)						
	Section V		Swink	Th	6:10-8:40		
	Section VI		De Ruyter	Th	6:10-8:40		
4-108	Administrative Procedure	(2)				\$28	p. 46
	Section I		Hickey	M	6:10-8		
	Section II		Wright	Tu	6:10-8		
4-201	Modern Supervisory Practice	(2)				\$28	p. 46
	Section I		Van Dersal	M	6:10-8:30	(10 weeks)	
	Section II		Berg	W	6:10-8:30	(10 weeks)	
6-202	Management—Seminar	(3)	Van Dersal	Th	6:10-8:40	\$42	p. 67
4-206	Essentials of Good Office Management	(3)	Wagner	W	6:10-8:40	\$42	p. 47
4-112A	Federal Fiscal Procedure (First Half)	(2)	Krueger	Tu	6:10-8	\$28	p. 47
4-114	Federal Personnel Procedure	(2)	Starns	Tu	6:10-8	\$28	p. 47
4-115	Federal Purchasing Procedure	(2)				\$28	p. 47
	Section I		Baldauf	M	6:10-8		
	Section II		Baldauf	Th	6:10-8		
4-116	Federal Budgetary Procedure: Formulation and Presentation	(2)				\$28	p. 48
	Section I		McOmber	W	6:10-8		
	Section II		Kliman	Th	6:10-8		
4-117	Records Management Procedure	(2)	Luttrell and Lando	Tu	6:10-8	\$28	p. 48
4-410	Management of Directives Systems	(2)	Wylie	W	6:10-8	\$28	p. 48
4-412	Reports and Forms Management	(2)	Rice and Meehan	Tu	6:10-8	\$28	p. 49
4-330	Government Letter Writing	(2)	Boyd	Th	6:10-8	\$28	p. 49

Shorthand

2-35	English for Secretaries (non-credit)		Anderson	M	6:10-8	\$28	p. 21
4-89	Review of Gregg Shorthand (Anniversary) 60-80 Words (non-credit)		Dow				
	M-Th	6:10-7:30	\$42	p. 50			
4-129	Gregg Shorthand I	(3)				\$42	p. 50
	Section I		Cerine	M-Th	6:10-7:30		
	Section II		Wick	M-Th	6:10-7:30		

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
4-130	Gregg Shorthand II	(3)	\$42	p. 50			
	Section I	Bell	M-Th	6:10-7:30			
	Section II	Instructor to be announced	M-Th	6:10-7:30			
4-225	Gregg Shorthand III (60-80 Words)	(3)	Vallieres	M-Th	6:10-7:30	\$42	p. 50
4-226	Gregg Shorthand IV (80-100 Words)	(3)	Trottnow	M-Th	6:10-7:30	\$42	p. 50
4-227	Gregg Shorthand V (100-120 Words)	(3)	Butler	M-Th	6:10-7:30	\$42	p. 50

PHYSICAL SCIENCES

General

5-225A	Principles of Physical Sciences (First Half)	(2)	Pallansch	W	6:10-8	\$28	p. 51
5-175A	Descriptive Astronomy (First Half)	(2)	Chou	W	7:30-9:20	\$28	p. 51
	(Meets at U.S. Naval Observatory)						
5-349	Advanced Space Science	(2)	Fellows	M	6:10-8	\$28	p. 51
5-765A	Practical Electronics for Biologists and Chemists (First Half)	(2)	Wilkins	M	6:10-8	\$28	p. 52

Chemistry and Physics

5-100A	General Chemistry (First Half)	(3)	\$42	p. 52			
	Section I	Jaquith	M	6:10-8:40			
	Section II	Wakabayashi	M	4:45-7:15			
	(Section II meets at Agricultural Research Center, Beltsville, Maryland)						
5-248A	Organic Chemistry (First Half)	(3)	\$42	p. 52			
	Section I	Alexander	W	5:20-8:10			
	(Section I meets at Walter Reed Army Institute of Research)						
	Section II	Wakabayashi	W	4:45-7:15			
	(Section II meets at Agricultural Research Center, Beltsville, Maryland)						
5-703A	Physical Chemistry (First Half)	(3)	Levin	M	5:20-8:10	\$42	p. 52
	(Meets at Walter Reed Army Institute of Research)						
5-424A	Chemistry of Behavior (First Half)	(3)	Leach	Tu	6:10-8:40	\$42	p. 53
5-315A	Elementary Biochemistry (First Half)	(2)	Flick	W	6:10-8	\$28	p. 53
5-320A	Basic Biochemistry (First Half)	(2)	Feinstein	Tu	5:00-6:50	\$28	p. 53
	(Meets at Plant Industry Station, Beltsville, Maryland)						
5-403	Biochemistry of Steroid Hormones	(3)	Tolson	W	6:10-8:40	\$42	p. 53
5-408	Nuclear Magnetic Resonance Spectroscopy	(3)	Lustig	M	6:10-8:40	\$42	p. 53
5-155A	Principles of Physics (First Half)	(2)	Smith	Tu	6:10-8	\$28	p. 53
5-126	Modern Physics	(2)	Dicker	Tu	6:10-8	\$28	p. 53
5-413	Biophysical Instrumentation	(2)	Campbell	Tu	5:20-7:10	\$28	p. 54
	(Meets at Walter Reed Army Institute of Research)						
5-431	Principles of Fusion Power	(3)	Harrison	M	6:10-8:40	\$42	p. 54
5-418	Introduction to Gas Chromatography	p. 54					
	Section I	Hornstein	W	4:45-6:35	(2)	\$28	
	(Section I meets at Plant Industry Station, Beltsville, Maryland)						
	Section II	Kazyak	Tu	5:20-8:10	(3)	\$42	
	(Section II meets at Walter Reed Army Institute of Research)						

Geography and Geology

2-114	Maps and Charts	(2)	Bahn	M	6:10-8	\$28	p. 27
5-203	General Geology	(3)	Douglass	Tu	6:10-8:40	\$42	p. 54

Meteorology

5-330	Agricultural Meteorology	(3)	Noffsinger	Tu	6:10-8:40	\$42	p. 57
5-415	Applied Climatology	(3)	Thom	M	6:10-8:40	\$42	p. 57
5-534A	Introduction to Dynamic Meteorology (First Half)	(3)	Petersen	Tu	6:10-8:40	\$42	p. 57 (Meets at Weather Bureau, MacArthur Boulevard)
5-592	Physics of Upper Atmosphere and Sounding Techniques	(2)	Giraytys and Teweles	Tu	6:10-8	\$28	p. 58

Oceanography

5-360	General Oceanography	(2)	Hicks	Tu	6:10-8	\$28	p. 59
5-475	Principles of Underwater Sound	(2)	Schulkin	W	6:10-8	\$28	p. 59
5-476	Applied Underwater Sound	(2)	Schulkin	Th	6:10-8	\$28	p. 59
5-658	Geological Oceanography	(2)	Weiss	Tu	4:30-6:20	\$28	p. 60
	(Meets at U.S. Naval Oceanographic Office)						
5-666	Biological Oceanography	(2)	Instructor to be announced	Th	4:30-6:20	\$28	p. 60
	(Meets at U.S. Naval Oceanographic Office)						

PUBLIC ADMINISTRATION

General Administration

6-341	American National Government	(3)	Nerboso	Th	6:10-8:40	\$42	p. 63
6-344	Introduction to Public Administration	(2)	Phillips	Tu	6:10-8	\$28	p. 63
6-348	Public Policy and Economic Development	(2)	Hein and Kriesberg	W	6:10-8	\$28	p. 64
6-515	Legislative Process	(2)	Sapp	M	6:10-8	\$28	p. 64

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
6-453	Human Relations in Administration	(3)	Enneis	Tu	6:10-8:40	\$42	p. 64
6-459	Executive Staff Work	(3)	Hurt	M	6:10-8:40	\$42	p. 65
6-600	Reading in Public Administration	(3)	Thurston (coordinator)				To be arranged
						\$42	p. 65

American History

6-250	American History to 1865	(3)	Rasmussen	W	6:10-8:40	\$42	p. 65
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Management

6-347	Principles and Practice of Management	(2)	Wilson	Th	6:10-8	\$28	p. 66
6-405	Principles and Techniques of Management Analysis	(2)	Greenwood	Th	6:10-8	\$28	p. 66
6-202	Management—Seminar	(3)	Van Dersal	Th	6:10-8:40	\$42	p. 67
6-519	Work Standards and Work Measurement	(2)	Schneider	W	6:10-8	\$28	p. 67
6-740	Dynamics of Organization—Seminar	(2)	Finlator	M	6:10-8	\$28	p. 67
6-415	Statistical Applications to Management Problems	(3)	Mandel	W	6:30-9	\$42	p. 68

Budgetary and Financial Administration

4-112A	Federal Fiscal Procedure (First Half)	(2)	Krueger	Tu	6:10-8	\$28	p. 47
4-116	Federal Budgetary Procedure: Formulation and Presentation	(2)				\$28	p. 48
	Section I McOmber	W	6:10-8				
	Section II Kliman	Th	6:10-8				
6-635	Federal Budget Administration	(2)	Cummins and Tiller	W	6:10-8	\$28	p. 69

Personnel Administration

6-430	Public Personnel Administration	(3)	Terry	M	6:10-8:40	\$42	p. 70
6-305	Safety Programs Management	(2)	Cresswell and Pope	M	6:10-8	\$28	p. 70
6-315	Labor Management Relations In Civil Service—Seminar	(2)	Gregg and Hart				
	Tu	6:10-8	\$28	p. 71			
6-330	Compensation Practices In Industry and Government	(2)	Kanninen	M	6:10-8	\$28	p. 71
6-340	Personnel Research—Recent Developments	(2)	Glickman and Harmon	W	6:10-8	\$28	p. 71
7-446	Personnel Psychology	(3)	Boulger	Tu	6:10-8:40	\$42	p. 83
6-444	Position Classification	(2)	Laxton and Findlay	Tu	6:10-8	\$28	p. 71
6-512	Employment and Placement	(3)	Garnett	M	6:10-8:40	\$42	p. 71

Legal Administration

6-320	Administrative Law and Procedure	(2)	Flavin	M	6:10-8	\$28	p. 72
6-422A	Business Law (First Half)	(2)	Perlman	W	6:10-8	\$28	p. 72
6-427	Aviation Law	(2)	Cooper	Tu	6:10-8	\$28	p. 72

Procurement and Property Management

4-115	Federal Purchasing Procedure	(2)				\$28	p. 47
	Section I Baldauf	M	6:10-8				
	Section II Baldauf	Th	6:10-8				
6-370	Government Construction Contracts	(2)	Gantt and associates	Th	6:10-8	\$28	p. 73
6-373	Labor Relations in Government Procurement	(2)	Gregg	W	6:10-8	\$28	p. 74
6-638A	Government Defense Contracts (First Half)	(2)	Davidson	Tu	6:10-8	\$28	p. 74
6-565	Inventory Management	(2)	Prichard	Th	6:10-8	\$28	p. 74

Accounting

6-342	Accounting for Non-Accountants	(2)	Stratton	Tu	6:10-8	\$28	p. 75
6-352A	Principles of Accounting (First Half)	(3)				\$42	p. 76
	Section I Knapp	M	6:10-9:45				
	Section II Carter	Tu	6:10-9:45				
6-352B	Principles of Accounting (Second Half)	(3)	Palenski	Tu	6:10-9:45	\$42	p. 76
6-353A	Intermediate Accounting (First Half)	(3)	Hord	M	6:10-8:40	\$42	p. 76
6-264A	Federal Government Accounting (First Half)	(2)	Canada	W	6:10-8	\$28	p. 76
6-420A	Advanced Accounting (First Half)	(3)	Acker	Tu	6:10-8:40	\$42	p. 77
6-642A	Cost Accounting (First Half)	(3)	Lobb	W	6:10-8:40	\$42	p. 77
6-645	Federal Income Taxes	(3)	Hamilton	W	6:10-8:40	\$42	p. 77
6-684A	Internal Auditing (First Half)	(2)	Robinson	Th	6:10-8	\$28	p. 78
6-693A	Auditing (First Half)	(2)	Greess, Haaser, and Robinson	Tu	6:10-8	\$28	p. 78
6-650A	Audit and Investigation Management—Seminar (First Half)	(2)	Greess	M	6:10-8	\$28	p. 78

SOCIAL SCIENCES

Economics

7-201A	Principles of Economics (First Half)	(3)	Hady	Tu	6:10-8:40	\$42	p. 79
7-548A	Economic Analysis (First Half)	(3)	Edwards	Tu	6:10-8:40	\$42	p. 80
7-570A	Introduction to Econometrics (First Half)	(3)	Abel	Th	6:10-8:40	\$42	p. 80

No.	Course Title (Cr.)	Instructor	Day	Time	Fee	Catalog page
3-509A	Mathematics for Economists (First Half) (3)	Rojko	W	6:10-8:40	\$42	p. 38
7-526	Introduction to International Economics (3)	Singleton	Th	6:10-8:40	\$42	p. 80
7-580	Comparative Economic Systems (3)	Singleton	W	6:10-8:40	\$42	p. 81
7-469	Economics of Cooperative Enterprise (3)	Abrahamsen	Tu	6:10-8:40	\$42	p. 81
7-468	Economics of Transportation (3)	Ulrey	Th	6:10-8:40	\$42	p. 81
8-375	Engineering Economics (3)	Searl	Th	6:10-8:40	\$42	p. 91
7-414A	Economics of Marketing (First Half) (2)	Nelson and Trelogan	Tu	6:10-8	\$28	p. 82
7-457A	Economics of Agricultural Development (First Half) (3)	Christensen	S	9:30-12	\$42	p. 82
7-434A	Commodity Prices: Economic and Bargaining Bases (First Half) (2)	Breimyer	W	6:10-8	\$28	p. 82
7-2	How and Why of Stock Investments I (non-credit)	Ebenfield	Th	6:10-8	\$28	p. 82
7-465A	Security Analysis (First Half) (3)	Pines	M	6:10-8:40	\$42	p. 83

Human Relations

7-210	General Psychology (3)	Fitzpatrick	Tu	6:10-8:40	\$42	and \$2 laboratory fee p. 83
7-235	Introductory Social Psychology (3)	Bloom	W	6:10-8:40	\$42	p. 83
7-446	Personnel Psychology (3)	Boulger	Tu	6:10-8:40	\$42	p. 83
7-462	Educational Psychology (3)	Boulger	Th	6:10-8:40	\$42	p. 83
7-544A	Psychology of Creative Individuals (First Half) (2)	Arasteh	Tu	6:10-8	\$28	p. 84
7-304	Conditions of Personality Growth (2)	Stammeyer	Tu	6:10-8	\$28	p. 84
7-463	Unity of Culture (3)	Tagliacozzo	Th	6:10-8:40	\$42	(Unification of scientific and humanistic cultures. Taxonomy of culture. Definition of general culture. Identification of components. Outline of integrated curriculum of general education in harmony with latest educational trend as exemplified by Bruner's structure theory of learning. Survey of overlapping problems of classification, unity, integration of science, knowledge, learning, and culture. Criteria of classification of organisms followed by modern biology.)
7-541	Improving Human Relations and Group Behavior (2)	Bauer	M	6:10-8	\$28	p. 84
7-701	Psychological Literature—Seminar (3)	Fitzpatrick	Th	6:10-8:40	\$42	p. 85
7-600	Readings and Papers in Human Relations (3)	Fitzpatrick (coordinator)			\$42	p. 85
7-400	General Semantics (2)	Eldridge	W	7:10-9	\$28	p. 85
7-545	Counseling Techniques (3)	Cornsweet	M	6:10-8:40	\$42	p. 85
7-547	Counseling and Behavior Modifications—Seminar (3)	Cornsweet	W	6:10-8:40	\$42	(Designed for those who deal with personnel on counseling basis where situations and problems are in constant review. Individual presentations, with exploration of psychological processes and dynamics. Discussion around significant problem areas of case material. Examination of contributing factors necessitating appropriate counseling techniques. Survey of literature in areas of behavioral and psychological modifications. Prerequisites: Abnormal Psychology, or Counseling Techniques, or Personality Integration, and experience in field, or special permission.)
7-556	Career Development for Federal Employees—Seminar (2)	Johns	Tu	6:10-8	\$28	p. 86
7-550	Programmed Learning (3)	Kaplan	Th	6:10-8:40	\$42	p. 86
7-464	Computers in Behavioral Sciences (3)	Fitch	Tu	6:10-8:40	\$42	p. 86
7-640	Medical Sociology I (3)	Kramer	M	6:10-8:40	\$42	p. 87
7-706	Sociological Literature—Seminar (3)	Johnston	Th	6:10-8:40	\$42	p. 87
7-542A	Russia: Yesterday, Today, and Tomorrow (First Half) (3)	Czajkowski	W	6:10-8:40	\$42	p. 87
7-299	Philosophy and Modern Man (2)	Rode	W	6:10-8	\$28	p. 87

TECHNOLOGY

Engineering

8-92	Review of Engineering Fundamentals for P.E. Examination (non-credit)	Rixse	W	6:10-8:40	\$42	p. 88
8-95	Electrical Engineering Review for P.E. Examination (non-credit)	Jessel, Jaffe, and Thomas	W	6:10-8	\$28	p. 89
8-98	Mechanical Engineering Review for P.E. Examination (non-credit)	Jessop	Tu	6:10-8	\$28	p. 89
8-97	Mathematics for Applied Electricity (non-credit)	Askegaard	M	6:10-8	\$28	p. 89
8-275	Symmetrical Components (3)	Slingluff	Th	6:10-8:40	\$42	p. 89
8-715A	Electric Power Transmission (First Half) (3)	Mather and associates	M	6:10-8:40	\$42	p. 90
8-465A	Applied Electronic Theory (First Half) (3)	Cullinane	M	6:10-8:40	\$42	p. 90
8-525A	Transistor Electronics (First Half) (3)	Parker	W	6:10-8:40	\$42	p. 90
8-100	Servomechanisms (2)	Titus	Tu	6:10-8	\$28	p. 90
8-105	Radar Systems Engineering (2)	Trisler	M	6:10-8	\$28	p. 90
8-690	Nuclear Reactors (2)	Schulman	M	6:10-8	\$28	p. 90
8-101	Introduction to Metallurgy (2)	Loring	Tu	6:10-8	\$28	p. 91
8-405	Principles of Specifications (2)	Rosenzweig	Tu	6:10-8	\$28	p. 91
8-682	Elements of Digital Data Processing (3)	Milson and Murray	M	6:10-8:40	\$42	p. 91
8-685	Engineering Application of Digital Computers (3)	Bossenga and Smith	Th	6:10-8:40	\$42	p. 91
8-375	Engineering Economics (3)	Searl	Th	6:10-8:40	\$42	p. 91

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
8-406	Engineering Mathematics	(4)	Plait	Tu-Th	6:10-8	\$56	p. 92
8-695A	Engineering Reliability (First Half)	(2)	Price	W	6:10-8	\$28	p. 92
8-697	Highway Location and Design	(3)	Green	Th	6:10-8:40	\$42	p. 92
8-710A	Steam Power Plants (First Half)	(3)	Bauer and associates	Th	6:10-8:40	\$42	p. 92

Surveying

8-135	Elementary Surveying	(3)	Blackburn	M	6-8 and 4 Saturdays		
						\$42 and \$2 laboratory fee	p. 95
8-218	Geodetic Surveying	(3)	Blackburn	W	6-8 and 4 Saturdays		
						\$42 and \$2 laboratory fee	p. 95

Photogrammetry

8-120	Introduction to Photogrammetry	(2)	Southard and Mullen	Tu	6:10-8	\$28	p. 95
8-208	Aerial Photographic Interpretation	(3)	Churchill	Tu	6:10-8:40	\$42	p. 96
8-251	Photogrammetry I	(3)	Southard and Mullen	W	6:10-9:30	\$42	p. 96

Cartography

2-114	Maps and Charts	(2)	Bahn	M	6:10-8	\$28	p. 27
8-240	Cartographic Techniques and Map Reproduction	(2)	Basile	Th	6:10-8	\$28	p. 97
8-226	Applications of Mathematics to Surveying and Mapping	(3)	Cook	Th	6:10-8:40	\$42	p. 97

Fine Arts

8-320	Pencil Sketching and Water Color Painting	(2)	Cupoli	M	6:10-9		
						\$42 and \$5 laboratory fee	p. 98
8-332	Introduction to Creative Expression	(2)	McKenna	M	6:10-9		
						\$42 and \$5 laboratory fee	p. 98
8-323	Portrait Painting in Oil	(2)	Lazzari	W	6:10-9	\$42 and \$5 laboratory fee	p. 98
8-338	Life Sketching	(2)	Cupoli	Th	6:10-9	\$42 and \$10 laboratory fee	p. 98
8-357	Etching	(2)	Frederick	W	6:10-9	\$42 and \$5 laboratory fee	p. 98
8-358	Etching Workshop	(2)	Frederick	Th	6:10-9	\$42 and \$5 laboratory fee	p. 98
8-356	Oriental Painting	(2)	Chang	F	6:10-9	\$42 and \$5 laboratory fee	p. 98
8-333	Art Appreciation and Survey	(2)	Osborn	Tu	6:10-8	\$28	p. 99
8-370	Music Appreciation	(2)	Shortridge	W	6:10-8	\$28	p. 99
8-359	Theater	(2)	Waters	M	6:10-8	\$28	p. 99

Applied Arts

8-35	Introduction to Institutional Housekeeping (non-credit)		Morgan and associates				
				Th	6:30-8:20	\$28	p. 99
8-55	Introduction to Interior Decoration (non-credit)		Steinger	Tu	6:10-8	\$28	p. 99
8-322	Art, Layout, and Design for Reproduction	(2)	Granahan and Taylor	W	6:10-8	\$28	p. 100
8-284	Landscape Design of Small Property	(2)	Schultheis	W	7:10-9	\$28	p. 100

Photography

8-70	Popular Photography (non-credit)		McCullough	W	6:10-8	\$28 and \$2 laboratory fee	
							p. 101
8-192	Fundamentals of Photography I	(2)	Cobb	W	6:10-8	\$28	p. 101
8-193	Practice of Photography I	(3)	Instructor to be announced	M	6:10-8:40	\$42 and \$4 laboratory fee	p. 101
8-196	Practice of Photography II	(2)	Burnett	W	6:10-8	\$28 and \$2 laboratory fee.	p. 101
8-360A	Portrait Photography (First Half)	(2)	Purdy	Th	6:10-8	\$28 and \$4 laboratory fee	p. 101
8-270A	Color Photography, Monopack Color Printing (First Half)	(3)	Rodbell	Th	6:10-8:40	\$42 and \$12 laboratory fee	p. 102
							(Meets at Walter Reed Armed Forces Institute of Pathology)
8-270B	Color Photography, Monopack Color Printing (Second Half)	(3)	Rodbell	Tu	6:10-8:40	\$42 and \$12 laboratory fee	p. 102
							(Meets at Walter Reed Armed Forces Institute of Pathology)
8-194	Creative Photography through Composition I	(2)	Miller	M	6:10-8	\$28 and \$2 laboratory fee	p. 102
8-198	Photo-journalism	(2)	Forte	Th	6:10-8	\$28	p. 102
8-333	Art Appreciation and Survey	(2)	Osborn	Tu	6:10-8	\$28	p. 99
8-011	Photographic Roundtable (non-credit)		Cobb	To be arranged		\$5	p. 102

Lithography

8-165	Copy Preparation—Pasteup	(3)	Martin	Tu	6:10-8:40	\$42	p. 103
							(Meets at Prince Georges Plaza, Hyattsville, Maryland)
8-166	Copy Preparation—Photographic	(3)	Wray	W	6:10-8:40	\$42 and \$24 laboratory fee	p. 103
							(Meets at Prince Georges Plaza, Hyattsville, Maryland)
8-170A	Survey of Lithography (First Half)	(3)	Reznikoff	W	6:10-8:40	\$42	p. 103

No.	Course Title (Cr.)	Instructor	Day	Time	Fee	Catalog page
8-176	How to Order Printing (3)	Bernstein	Th	6:10-8:40	\$42	
	(How to order printing, with emphasis on materials and processes. Their application to requisitioning printing, especially in Federal Government. Book work, job work, multiforms, tabulating cards, and other specialty items, including scheduling, packaging, and shipping. Selection of most effective and economical printing details for intended use. Prerequisite: Survey of Lithography, or equivalent.)					
8-171A	Offset Stripping and Negative Work (First Half) (3)	Hamm	Th	6:10-8:40	\$42 and \$10 laboratory fee	p. 103 (Meets at Prince Georges Plaza, Hyattsville, Maryland)
8-174A	Offset Photography (First Half) (3)	Rankin	Th	6:10-8:40	\$42 and \$10 laboratory fee	p. 103 (Meets at Prince Georges Plaza, Hyattsville, Maryland)
8-175A	Lithographic Estimating (First Half) (2)	Molinari	M	6:10-8	\$28	p. 103

STUDY—DISCUSSION GROUPS

2-44	Twentieth Century Poetry in English (non-credit)	Kilmer	Tu	6:10-8	\$18	
	(Discussion based on Library of Congress recordings of poets reading their own works; An Album of Modern Poetry, edited by Oscar Williams; and Nine Pulitzer Prize Poets Reading Their Own Poems.) (10 weeks)					
7-20	World Politics (non-credit)	Sweeney	Th	6:10-8	\$18	
	(Understanding issues and events in international arena. Topics: What causes war? State and individual. Democracy. Communism. Domination. Self-determination. Power politics and ideology. International organization and world government. Means and ends in world politics.) (10 weeks)					
7-35	United States Foreign Policy (non-credit)	Ashman	Tu	6:10-8	\$18	
	(Contemporary foreign policy in terms of interrelationships of major problems confronting the government. How policies are decided. Their application through bilateral diplomacy and international organization. Topics selected with view to special interests of students. United States, United Nations, and Congo. Foreign trade and assistance and economic development. Nuclear threat and disarmament. Political revolution and Alliance for Progress. Communist China. Southeast Asia. Others.) (10 weeks).					

U. S. DEPARTMENT OF AGRICULTURE
GRADUATE SCHOOL
WASHINGTON 25, D. C.

1964 FALL SCHEDULE OF CLASSES

